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MPG® 3-in-1 MPS®
Magnetic Particle Separator
Product No. MPS0301

The 3-in-1 Magnetic Particle Separator (MPS®) is manufactured from ultra high molecular weight polyethylene and contains Neodymium-Iron-Boron magnets.
The 3-in-1 Magnetic Particle Separator (MPS®) plays a significant role in our MPG® magnetic particle technology. The 3-in-1 Magnetic Particle Separator is a rapid means to effect the separation desired. Using our MPG® products, the particles with the target material attached are drawn to the tube wall adjacent to the magnet within moments of placing the centrifuge tubes in the stand.
The 3-in-1 MPS® is extremely versatile, it will hold the following combinations of centrifuge tubes:

1. Up to eight 1.5 ml microcentrifuge tubes.
2. One 1.5 ml microcentrifuge tube and one 15 ml centrifuge tube.
3. One 1.5 ml microcentrifuge tube and one 50 ml centrifuge tube.

Minimum Magnetic Properties
Neodymium-Iron-Boron Magnets

Br (Residual Induction)	13.6 kGauss
Hc (Coercive Force)	10.5 kOersteds
Hci (Intrinsic Coercivity)	12.0 kOersteds
(BH) max (Maximum Energy Product)	45.0 MGOe

Warning: The product should not be kept in close contact with magnetic tapes, computer disks, any magnetic storage systems, or other delicate electronic instruments and/or devices that might be interfered with or damaged by a strong magnetic field.

Note: The 3-in-1 MPS® is not autoclavable and heating should be avoided. Use mild soap or 70% ethanol for cleaning or disinfection.

Instructions for Use:
Follow the procedure or protocol for the MPG® product you are using. When Magnetic Separation, Resuspension or Washing is specified, use the 3-in-1 MPS® as follows:

Separation
1. Insert the test tube(s) in the 3-in-1 MPS®.
2. Let the tube(s) remain in the MPS® for (depending on the diameter of the tube) 0.5 - 5.0 minutes allowing the particles to be drawn to the wall of the tube(s).
3. The tube(s) should remain in the MPS® while removing the supernatant.

Washing
1. Remove the tube(s) from the MPS®. Add the wash solution along the wall of the test tube resuspending the particles. Vortex to ensure full suspension.
2. Insert the tube(s) in the MPS® for (depending on the diameter of the tube) 0.5 - 5.0 minutes between each washing cycle.

Resuspension
1. Remove the tube(s) from the MPS®. Add the appropriate solution along the wall of the test tube resuspending the particles. Vortex to ensure full suspension.